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Information Disclosure Statement by Applicant

Applicant: Louis B. Rosenberg et al.

Filed: 07/10/03

Group: 2629

(Use several sheets if necessary)

U.S. Patent Documents

Init.	Document No.	Date	Name	Class	Subclass	Filing Date
	4,023,290	05/17/1977	Josephson			
	4,101,884	07/18/1978	Benton, Jr.			
	4,108,146	08/22/1978	Hall, Sr.			
	4,242,823	01/06/1981	Bruno			
	4,414,537	11/08/1983	Grimes			
	4,414,984	11/15/1983	Zarudiansky			
	4,550,221	10/29/1985	Mabusth			
	4,557,275	12/10/1985	Dempsey, Jr.			
	4,584,625	04/22/1986	Kellogg			
	4,692,756	09/08/1987	Clark			
	4,715,235	12/29/1987	Fukui et al.			
	4,757,453	07/12/1988	Nasiff			
	4,791,416	12/13/1988	Adler			
	4,821,030	04/11/1989	Batson et al.			
	4,871,992	10/03/1989	Peterson			
	5,143,505	09/01/1992	Burdea et al.			
	5,159,159	10/27/1992	Asher			
	5,223,658	06/29/1993	Suzuki			
	5,237,327	08/17/1993	Saitoh et al.			
	5,262,777	11/16/1993	Low et al.			
	5,316,017	05/31/1994	Edwards et al.			
	5,521,336	05/28/1996	Buchanan et al.			
	5,562,707	10/08/1996	Prochazka et al.			
	5,580,251	12/03/1996	Gilkes et al.			
	5,729,249	03/17/1998	Yasutake			
	5,767,457	06/16/1998	Gerpheide et al.			
	5,828,197	10/27/1998	Martin et al.			
	5,828,364	10/27/1998	Siddiqui			
	5,942,733	08/24/1999	Allen et al.			
	5,943,044	08/24/1999	Martinelli et al.			
	5,982,304	11/09/1999	Selker et al.			

Examiner

Date Considered

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

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U.S. Patent Documents									
Init.		Document No.	Date	Name	Class	Subclass	Filing Date		
		5,988,902	11/23/1999	Holehan					
		6,680,729	01/20/2004	Shahoian et al.					
		2003/0122779	07/03/2003	Martin et al.					
Foreign Documents									
								Translation	
Init.		Document No.	Date	Name	Class	Subclass	Yes	No	
		JP6-18341	01/25/1994	Fuji Electric Company, Limited			X		
		JP11-299305	11/02/1999	Kubota Corporation			X		
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)									
		Bolanowski, S.J. et al., "Four Channels Mediate the Mechanical Aspects of Touch," J. Acoust. Soc. Am. 84 Volume 84 (5), November 1988, pp. 1680-1694.							
		Durlach, Nathaniel I. et al., "Virtual Reality: Scientific and Technological Challenges," National Academy Press, Washington, D. C. 1995, pp. 160-205.							
		Friskin-Gibson, Sarah F. et al, "A 64-Solenoid, Four-Level Fingertip Search Display for the Blind," IEEE Transactions on Biomedical Engineering, Vol. BME-34, No. 12, December 1987, pp. 963-965.							
		Goldstein, Moise H. et al., "Tactile Aids for the Profoundly Deaf Child," 77 J. Acoust. Soc. Am 77 (1), January 1985, pp. 258-265.							
		International Preliminary Report on Patentability, PCT/US2005/036861, dated 04/11/07.							
		Jackson, K. M., "Linearity of Radio-Frequency Transducers," Medical and Biological Engineering and Computer, July 1977, pp. 446-449.							
		Kaczmarek, Kurt A. et al, "Electrotactile and Vibrotactile Displays for Sensory Substitution Systems", IEEE Transactions on Biomedical Engineering, Vol. 38, No. 1, January 1991, pp. 1-16.							
		Peine, W.J., "Tactile Shape Displays for Small Scale Shape Feedback," http://www.hrl.harvard.edu/~peine/display.html , 1998, pp. 1-2.							
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